## NEWSLETTER

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## PLEASE NOTE: MARGH MEEIING IS MARCH 5 (FIRST SATURDAY)

## 衛樃 DUANE PARKER

## FWOV IHE EIITOR

Before I step up on my soap box, let's look at what we have assembled in this issue. Since April 15th is rapidly approaching, Barry Washington has revised his 2068 tax program to track the new tax law. QL users should be using Peter Hale's Tax-I-QL/87. Duane Parker has been doing some research on getting data files from MS-DOS machines to the QL and he is sharing the results of his efforts with us.

Well, it finally happened! The bane of all editors caught up with me last month when I left 3 lines out of Peter van Dijk's column. I apologize. I was so intent on using the text entry part of DTP, I didn't think to proofread the page. The missing lines are on page 11.

Peter can't be too angry with me since he sent in his column for this month with some more great designs. The Orlando Computerfest is next month and our Letters column contains a letter that Joan Kealey sent to the organizers. I feel that this newsletter should be a forum for users of all Sinclair computers; therefore, I welcome the opinions of readers like Joan. Look at our Classified Ads. Whenever we can, we will run your ad. There are some great buys, so check them out.

I hope that this issue was not a fluke, in that I received so much material that $I$ wasn't able to include it all. Even Peter's column had to be continued. Keep it up. It certainly makes my job easier.

CHAPTER 2 IN THE "MARE THE EDITOR'S JOB EASIER SAGA".
Please look at the small box in the lower right hand corner of this page. If you will note, I try to be very flexible when it comes to media used for submissions; however, in the case of submissions prepared on the QL. I will only accept hard copy that has columns $31 / 2^{\prime \prime}$ wide. If
you don't know how to set it up, give me a _doc file on disk or microdrive and I'll do the rest. I'm working very hard to upgrade the production standards of the newsletter and hard copy, without a backup disk/cart, with wider columns just won't hack it.

Next month we will make the coveted "Best of 1987" awards for the QL and 2068. If you haven't voted yet, drop me a line.

As I say each month, why not jot something down and submit it to the newsletter. We need contributors. See you at Orlando.


## 

11:00 Hardware Workshop QL protective devices.

2:00 General Meeting
FORTH A multimedia presentation by duane parker

## 4:45 Adjourn

> POTPOURRI

AN OPEN LETTER TO ALL USER GROUPS ONE OF OUR MEMBERS; JOAN KEALY: HAS SEMT THE FOLLOWING LETTER TO THE FLORIDA TS FEST ORGANIZERS. EVEN IF WOU DON'T HPWE A 2068 vOU SHOULD GIVE THE UNDERLYING MESSAGE SERIOUS THOUGHT.

SUNSTATE T/S HINTERFEST
SUNSHINE BULLETIM SERYICE
219 N. HARDEN AYE.
ORANGE ©ITY, FL 32763
Sirs:
I wish to request that you bring before the 5 TSUGS sponsoriag the fest the aeed to acquire SCLOS beyond the 25 you are rusored to be raffling off at the fest. A raffle is fine for those who do MOT need an SCLD yet but for repairmen tho cannot even get an answer to their letters to Tines Portugel, the life expectancy of T\$2068s is curtailed by the lack. I just talked to Tiaes service center in Little Rock. Thet said they continue to try to take care of TS computers under warronty BUT vould sell no §ClDs.

Nothing anyone is doing whether prograns, harduare, books, will be of any quail if no SClDs are availoble for entending the lifespan of 2068s. So why not try to muster enough customer signatures to pressure Tinex computer corpse, holder of potents, to releose the U.S.-based chip anufacturer from restrictions goginst sale of \$fids io repolrani, distributors, TSUCS, ondior Tô--moybe all together could purchose sizeoble order to interest the chip co-any techie con tell you the nane of the conpany that manufactures these specialized chips. Seriously! We have zero drag vith Times as computer customers but they still would like the goodvill we would feel to continue os fimes vatch custoners. The name's the same even if they bobbed the gane. Goodwill gets sensitive to big conpanies only when big numbers are invalued. Signup a petition eloquently expressed at you bonquet and send howe yith TSUCS a son of signup for the to enlist their stay-at-hone meabers. Cutoff date for naling to Timen should be stoted so noil does not dribble in to then.

Heckfire, we are the latest trekkies even to having conventions--if they could revive "Star Trek" why con't ve get a hundred or so \$CLDs from from the true source with liaes consent? I not - nervy upstart but rather a dues-poying, neusletter waiting weber of North East Floride TSUG:
sincerely,

Joan Kenly

## T/B-FEST COMING IN ORLANDO

The sUNSINTIE T/S WINTHRFEST'88 is almost upon us!! Pertinent data is summarized below:

DAIE: March 4-6 (Fri-Sun), 1988.
PLACE: Orlando Marriott
International Drive
south Orlando
305-351-2420
RAMES: \$90 per single or double (mowl)
VENDORS: All the old favorites will be there. Foreign vendors (25) have also been invited.
sEasions: A fully panoply of T/s topies will be presented.
sPACE: 1,076 guest rocms.
7,000 sq. ft. of exhibit area.
3 heated outdoor pools, 4 lighted tennis courts, hydro pool.

IRAVEL: Image International, Inc. has been chosen to help with travel planning, including airlines, limo's and taxi's. CA11: 1-800-351-1360.

IITO: Call the Sunstate T/8 BBs at 904-775-0093; 8-1-none, 300 bend.

TO REGISIER: Gend \$5/single, \$9/family ( $\$ 8 / \$ 12$ on site) to: Mary-Lynn Johnson, Chairman Sunstate T/8 WinterFest'88 249 N. Harden Avenue Orange City, Florida 32763

PLANS: You might want to coordinate your travel plans with our Cars I-95 experts, BOB AND AUDREY CURNUIT, 301-439-8756.

## by LeBaron H. Washington

10 REM ** By R. A. SCHRACK-1995 **
20 REM ** SLAGERY EY L. H. WASHIMGTOM-1988
30 REM ** FOR 1987 FED. INC. TAXES
40 REM ** JLO DISC AND CENTRONICS
50 REM * 80 COUUMN FRINTER
60 REM $* * * * * * * * * * * * * * * * * * * * * *$
70 REM 1987 FED. INCDME TAX

$9060 T 0140$
100 DIM 練 $(67,23)$
110 DIM V(67)
120 LET L39=0: LET L40=0: LET L41=0: LET L42=04 LET L43=0;
LET L44=0 LET L45=0: LET L46=0: LET L47=0
1206070450
140 CL5: BIDRER 5: PAPER 6: INK 9: LET /P=0: CLS
150 PRINT AT 2,5 " $^{\text {"Federal }}$ Income Tax 1987"
160 FRINT
170 EORDEE I: PAFER 1: INK 9
180 PRINT "Enter number of chaice from memu"
190 PRINT
200 FRINT "1. Fresh start " FLASH i: "ERASES ALL DATA " FLASH 0
210 PRINT ${ }^{\text {n2 }}$. Correction run"
220 FRINT "3. Input data listing"
200 FRINT ${ }^{4} 4$, Results listing"
240 PRINT "5. Input data index listing"
250 PRINT " 5 . Save program on DISC"
260 PRINT
270 EDRDER 3: PAPER 5; INK 9
280 PRINT "You will need the input data index listing
before you make a correction run.
270 POKE 23658,8
300 INPUT 2
310 CLS
320 IF $z=1$ THEN EO TO 100
330 IF $2=3$ THEN GO TO 1870
340 IF $z=4$ THEN GO TO 2260
350 IF $2=5$ THEN GO TO 2600
360 IF $z=6$ THEN GO TO 2940
370 PRINT AT 3 , 5 ; "Give index of value to be changed."
380 INPIT $k$ : IF $k<=0$ OR $k>67$ THEN 60 TO 380

400 INPUT $v(k)$
410 FRINT v(k)
420 PRINT: INFIT"Enter an "ur ${ }^{\text {" }}$ to recalculate tax or ENTER
for another correction. "K K
430 IF $K \$=" R^{n}$ then go to 1170
440 CLS: 60 TO 370
450 LET M $\mathrm{M}(1)=" 1-5$ FILING STATUS"
460 LET Mí2)="6a MLMER OF EXEMFTIONS"
470 LET M 3 (3) $=$ " 7 SALARIES, WAGES, TIPS"
480 LET M(4) 4 " 8 INTEREST INCDME"
490 LET Má $(5)=$ " 9 TAX EXEMPT INTEREST

500 LET M $(6)=" 10$ DIVIDENDS REC: $D^{\prime}$
510 LET M(7) 17 " 11 REF. STATE INC. TAK"
520 LET M $\$(8)=" 12$ ALIMONY RECEIVED"
530 LET M (7) $=$ " 13 EUSINES5 INCOME"
540 LET M $\$ 101=114$ CAF.GAINS OF LOSSES"
550 LET M(11)="15 OTHER GAIN or LOSS"
560 LET M\$(12)="16a PENS. IRA DIST. ETC:"
570 LET Mos $(13)=1166$ TAXAELE AMT.OF 16a"
580 LET H ( 14 ) $=$ " 17 RENTS, ROYALTIES, ETC."
590 LET Min (15)="18 FARM INC. or (LOS5)"
600 LET M $\mathrm{M}(16$ ) $=419$ LNEMPLOYMENT COMP:"
610 LET M ${ }^{(17)}$ (17) " 20 a SOCIAL SEC. BENES"
620 LET M $\mathrm{M}(18)=$ " 20 t TAXAELE AMT, OF $20 \mathrm{a}^{\mathrm{B}}$
630 LET M (119) $=$ " 21 OTHER INCOME"
640 LET M (20) = "23 REIMEUR. EMF. FUS. EXF.

660 LET M(22) $=$ " 240 SFOUSE 'S IRA DED."

680 LET M ${ }^{2}(24)=" 26$ KEOGH RETIR. PLAN ${ }^{*}$
690 LET M (25) $=$ " 27 EAFLY HITHDRAW PEN."
700 LET M(20) 20 " 28 ALIMONY FAID"
710 LET M $\$(27)=$ "A1a DOC ANS INS. BILLS"
720 LET M $\$ 28$ ) ${ }^{\text {"AIa }}$ MEDICINES AND DRUGGS
730 LET M(29)="A1L MED. TRANGFORTATION"
740 LET M(30) ="AIC DTHER MED. EXP."
750 LET M ${ }^{3}(31)=$ "AS STATE INCOME TAXES"
760 LET H⿰ 4 (32) $=$ "A 6 REAL ESTATE TAXES"
770 LET Mín $\{33\}=" A 7$ OTHER DEDUCT. TAXES"
780 LET M $(84)=$ "A9 MORTGAGE INTEREST"
790 LET Mo (35)="A10 DEDUCTABLE POINTS"
800 LET M $3(3 b)={ }^{\text {"A1 }} 11$ DEDUCT. INVES, INT: "
810 LET M\$ (37) ="A12a OTHEN INT FAID"
820 LET M M (38) ="A14a CASH CONTRIEUTILNG"
830 LET M (39) ="A14b CAFH CONT, OV 3000"
B40 LET M (40)="AL5 CONT. OTHER THAN CASH"
B50 LET M $\mathrm{H}(41$ )="A16 CARRY OVR. PHIOR YEAR"
B60 LET M\$(42)="A18 CASUALTY-THEFT LO55"
870 LET H(43)="A17 MOUING EXPENSES"
880 LET M $\$(44)=" A 20$ UNFEIM, EMF.EUS, EXF: ${ }^{*}$
890 LET M $(45)=$ "A21 OTHER EXPENSES"
900 LET M $(46)=" A 25$ MISC. DED N/S $702 \%$."
710 LET M $(47)=132 a$ OVE5-ENTR $0,1,2,3,4^{n}$
920 LET M $(48)=322 \mathrm{t}$ CLMD AS DEP, $N=0, \gamma=1 "$
930 LET $M(49)=" 32 \mathrm{C}$ MD FILE SEP: $N=0, y=1 "$
940 LET M $\mathrm{m}(50)=133$ DED. I/D(1) or $5 / D(2)^{n}$
750 LET $\mathrm{m}(51)=" 38$ ADDITIONAL TAXES"
960 LET $M(352)=40$ CR.CHILD, DEF.CARE"
970 LET $\#(53)=141$ CR. ELDERLV/DISARLE"
980 LET M $\mathrm{m}(54)=44$ FOREIGN TAX CREDIT"

1000 LET M $4(56)=" 48$ DELF EMPLOYMENT TAX"
1010 LET M ${ }^{(157}(57)=49$ ALT. MINIMUM TAX"
1020 LET M 158 )="50 TAX FR. PECAP. INV/CR"

1030 LET Hक $597=31$ S． 5. TAK ON TIF INE：＂
1040 LET Pt $601=" 52$ TAX ON TRA or ORP＂

1060 LET W世 $62=" 55$ EST，TAK PAYENTS＂
$1070\left[E T{ }^{2}(6)=" 56\right.$ EAFNED INL．CREDTT＂
1000 LET 锶（24）＝57 AMT．FA10 W／EXT RED．＂
1070 LET H 4 （65）$=48$ ENCESS S．S．TAK M／HLD．＂
110 LET 到（6b）＝＂54 CRED．FED GAB TAX＂
iH10 EX M（G7）＝＂60 REG．INES，COMF，CRED＂
1120 FOR I＝1 10 b7
1230 FHINT AT 9 ，1，＂ENTER＂！
1140 （MPUT V（I）
1E0 CLS
1160 晖程 ！
3170 LET H＝0
118）GOE IE 1015
H9 EET TI＝TI＋VU
6ON HEXT
1210 LET $7=7=-V(5)-V(12)-V(17)$
120 LET TA $=V(20)+V(21)+V(22)+V(23)+U(24)+V(25)+V(26)$
1230 LET AGT＝TI－TA
1240 LET MY $=\mathrm{U}(27)+\mathrm{V}(28)+\mathrm{V}(29)+\mathrm{V}(30)$
1250 LET MT＝MY－．075＊4GT
1260 LET MD＝WN（MD $1000+.05) / 100$
1270 IF MD $=0$ THEN LET MD＝0
1200 LET SD＝0
129060 SUE 206

ENTER TO CONTINLE）＂：PAUSE 0：PRINT
1310 LET TD＝0
1320 FOR I $=31$ TO 43
1330 LET TD $=T \mathrm{D}+\mathrm{V}(\mathrm{I})$
1300 NEXT I
1350605482970
1360 LET TI $=T D+N D-V(37)+(V(3) *, 55)+V(46)+T E$
1370 IF $V(50)=2$ THEN LET TD $=5 D$
1390 LET TD＝INT（TD＊100＋．05）／100
1370 LET TAXI＝AGI－TD－（1900＊V（2））
1400 IF（TAXI）50000 AND $V(1)=2)$ ar（TAXIY 50000 AND $V(1)=5)$
THEN GOTO 1480
1410 IF（TAXI＞50000 AND V（1）＝1）THEN 60 T0 1570
1420 if（ $T A K 1>50000$ AND $V(1)=4$ ）THEN 60 T0 1650
1430 IF（TAXIY50000 AND V（1）$=3$ ）THEN GO TO 1750
1440 PRINT＂YOUR TAXAELE INCOME 19 ＂ ＂TAKI！＂
USE TAX
TAREE ON PAGES 31－3．3．ENTER TAX．＂
1450 INPUT TAX
1460 FOTO 1820
1470 rem calc．Fil married filing jointly
1480 LET TAX $=8840$
1490 LET MIN $=45000$
1500 LET TAXR＝． 35
1510 IF TAKIC90000 THEN G0 101780
1520 LET $T A K=24590$
1530 LET MIN $=70000$
1540 LET TAX原＝， 385
155060101780

1560 REM CALC．FOR SINGLE TAXPAYER
1570 LET TAK＝53014
1580 LET MIN＝27000
1590 LET TAXR＝． 35
1600 IF TAX1 554000 THEN 60 T0 1780
1610 LET TAX＝14754
1620 LET MIN $=54000$
1630 LET TAXR＝． 385
164060 TO 1780
1645 REM CALC．FOR HEAD OF HOUSEHOLD
1550 LET TAX＝7550
1660 LET MIN $=38000$
1690 LET TAXR＝． 35
1670 IF TAKIß80000 THEN 60 TO 1780
1700 LET TAX $=22250$
1710 LET MIN $=80000$
1720 LET TAKK $=38.38$
173050 T0 1780
1740 REN CALC．FDR MARRIED FILINE SEFARATELY
1750 TAK $=12295$
1760 MIN $=45000$
1770 LET TAXR＝． 385
1750 LET TAX $=$ TAX + TAXR $*(T A X I-M I N)$
1790 LET TAK $=$（INT $(100 * T A X)) / 100$
1806 IF L43＝L39 THEN LET TAX＝TAX
1810 IF L47＝L43 THEN 60 TO 1840
1820 IF L43̉ 39 AND L47＝0 THEN LET TAX $=0$
1830 IF L4E $<43$ THEN LET TAX $=0$
1640 LET TTAX $=T A X+L 47+V(56)+V(57)+V(5 B)+V(59)+V(60)$
1850 LET TAXPD $=V(61)+V(62)+V(63)+V(64)+V(65)+V(66)+V(67)$
1560 LET TAXDLE $=$ TTAX－TAXPD
1870 ClS
1880 LET 1 ＝＂n
1890 INPUT＂CUMMAFY TO（5）CREEN，（F）RINTEF OR（M）ENU＂：${ }^{2}$ Z
1900 IF $Z \$=" 5$＂THEN GO TO 1930
1910 IF $Z$ क $=$＂$P^{\prime \prime}$ THEN 60 TO 2640
1920 IF $Z=" M "$ THEN GOTO 140
1930 CLS
1940 PFINT AT $2,1: "$ SUMWARY 1987 FED．INCOME TAX＂
1750 PFINT AT 3，1：＂
1760 PRINT AT 5，11：＂INPUT DATA＂
1970 PRINT AT $6,111^{\prime \prime}========{ }^{\prime \prime}$ ；PRINT
1990 FOR $I=1$ T0 67
1990 PRINT M（1）：TAB 24：V（I）
2000 NEXT ？
2010 PRINT FLASH I：INK 9；＂PRESS GNY KEY FDR MENU＂；FLASH 0
2020 FAUSE 0： 60 TO 140
2030 IF $V(1)=1$ AND $V(47)=1$ AND $V(50)=2$ THEN LET $3 D=3750$
$2040 \mathrm{IF} V(1)=1$ AND $V(47)=2$ AND $V(50)=2$ THEN LET $S D=4500$
2050 IF $V(1)=2$ AND $V(47)=1$ AND $V(50)=2$ THEN LET $S D=5600$
2060 IF $V(1)=5$ AND $V(47)=1$ AND $V(50)=2$ THEN LET $S D=5600$
2070 IF $V(1)=2$ AND $V(47)=2$ AND $V(50)=2$ THEN LET $50=6200$
2080 IF $V(1)=5$ AND $V(47)=2$ AND $V(50)=2$ THEN LET $S D=6200$
2090 IF $V(1)=2$ AND $V(47)=3$ AND $V(50)=2$ THEN LET $50=6800$
2100 IF $V(1)=2$ AND $V(47)=4$ AND $V(50)=2$ THEN LET $5 D=7400$
2110 IF $V(\mathrm{i})=3$ AND $V(47)=1$ AND $V(50)=2$ THEN LET $50=3100$

2120 IF $\cup(1:=3$ AND V(47) $=2$ AND V(5O) 2 THEN LET SD=5700
2130 IF V(1)=5 AND V(47) $=3$ AND V(50) 2 THE LET STF 4300
2140 IF $V(1)=4$ AND $V(47)=1$ AND $V(50)=2$ THEN $L E T \quad S I=5150$
2150 IF $V(1)=4$ AND V(47) 2 AND V(E0) $=2$ THEN LET $2 D=5900$

2170 IF $V(1)=4$ AND $V(47)=0$ ANO $\quad(50)=7$ THEN LET $5 D=2540$
2150 IF $V(1)=2$ AND $V(47)=0$ AND V(50) $=2$ THE 12 LET $C D=3760$
2170 IF $V(1)=5$ AND $\cup(47)=0$ AND V $601=2$ THEN LET $9 D=3760$
200 if $V(1)=3$ AND $V(47)=0$ A ${ }^{2} D \quad V(50)=2$ THEN LET $50=1880$
2210 IF $V$ ©50: $=1$ ThEN LET SD=0
2200 PEUREN
2230. FREMT \#1:"PRESS (ENTER) TO RETURN TO MENU"

2240 PALISE O: 6070140
2ED PRIMT
2260 CL
2270 FRIMT AT 1,7 "SDMARY OF FESULTE"
2200 PRTHT AT 3, 5: 1997 FEDERAL INCOME TAX"
290 PRINT
2000 FAINT " 22 TOTAL INCOHE" TAE 24:TI
2310 FRINT " 29 TOTAL ADUSTMENTS":TAE 24:TA
2S20 FRINT "30 ADJ. GROSS INCDME" TAB 24:AGI
2330 FRINT "A4 MEDICAL DEDUCTIDN":TAB 24:MD
2340 FRINT "A2 6 TOTAL DEDUCTIONS":TAE 24 :TD
2350 FRINT " 36 TAXABEE INCJME":TAB 24;TAXI
2 Z60 PRIMT "37 TAX ON INCOME:TAE 24:TAX
2370 PRINT "53 TOTAL TAK" TAE 24 TTAK

2370 IF TAVDUE 70 THEN G0 TO 2430
2400 LET OF=-TAXDUE
2410 FRINT " 62 OVERPATD!" TAE 24:0F
242060702440
2400 FRINT " 65 TAX DUE":TAB 24 TAXDUE
2440 PRINT
$24 \overline{0}$ PRINT INVERSE 1:"IF PRINTOUT OF OUTPUT IS DESIRED.

INVEFSE O
2460 FAUSE 0: IF INKEY\$く, MF" THEN GO T0 140
247060702720
248060 TO 140
2490 LET $/ F=0$
2500 LFRINT "INFUT FUR 1997 FED. INCOME TAX"
2510 LFRINT
2500 FOR $I=1$ T0 67
2530 LPRINT M M (1): TAB 25:V(I)
2540 NEXT I
2550 LPRINT
2530 LPRINT
2570 LPRTMT
2580 LFRINT
2590 60 T0 140
2600 FOR $I=1$ T0 67

2610 LPRINT I:" ":M\$(1)
2620 NEXT I
263060 TO 140
2640 LET $/ P=0$
2650 LFRINT TAB $1:^{\prime \prime}$ SUMMARY 1987 FED. INCDME TAX"
2660 LPFINT TAB b: "INFUT DATA"
2670 LET $/ P=0$
2680 FOR $I=1$ T0 67
2690 LPRINT M ( 1 ):TAR 24!V(1)
2700 NEXT I
2710 PRINT
2720 PRINT: FRINT: FRINT
2730 LFRINT: LPFINT: LPRINT
2740 LPRINT TAB 4: "SIMMARV OF RESULTS"
2750 LPRINT" $====\approx=\approx=\approx========^{n}$ : LPRINT
2760 LPRINT TAB $2 ; " 1997$ FEDERAL IWCOME TAX"
2770 LFFINT
2780 LPGINT "22 TOTAL INCOME", TAE 24:TI
2790 LPGINT "29 TOTAL SOJUSTMENTE";TAE 24;TA
2800 LFRINT " 30 ADI, GROSS INCOME":TAE 24:ABI
2810 LPEINT "A4 MEDICAL DEDUCTION":TAE 24:H0
2920 LPRINT "A26 TOTAL DENUCTIONF" TAB 24:TD
2830 LFFINT "36 TAXAELE INCOME":TAB 24:TAKI
2940 LFRINT "37 TAX OH INCOHE":TAB 24:TAX
2950 LPRINT n 53 TOTAL TAX":TAE 24:TTAX
2860 LPRINT " 61 TUTAL PAMENTG"TAE 24:TAXFD
2870 IF TAXCUE 0 THEN 0102910
2890 LET OF=-TAXDE
2890 LPRTMT "62 DUERPAID! TAE 240P
2900 s0 102920
2710 LPRINT "6S TAX DUE" TAE 24TAXDLE
2920 LFRINT
$293060 T 0140$
2940 CLS: SAVE/"1040 TX' 87 "LINE 140
2950 BEE 25,20 : BEEP : 5,10 : BEEP 25,20
29606070140
2970 LET L42 $=V(52)+V(53)$
2990 LET LJF=TAX + U(51)
2990 LET L43 $=\mathrm{L} 39-\mathrm{L} 42$
3000 IF 14300 THEN LET L43=0
3010 LET $146=V(54)+V(55)$
3020 LET L47=L43-L46
3030 IF $L 42=0$ THEN LET L47=0
3040 IF $L 4700$ THEN LET L47=0
3050 LET TE=0
3060 LET TE=V(44)+V(45)-(AGI*.02)
3070 IF TEOO THEN LET TE=0
3080 GETURN

HOW TO GET STUFF FROM BIG BLUE, or MS-DOS to QL File conversions by Duane Parker

Once I had learned enough about my QL to handle the applications programs. I began to consider what else I could program the machine to do. I have some coded-graphics, plus text, data-files generated by a program that runs on IBM (or clone) PC. Can a QL program be written to manipulate the text or figures? That sounds like a good project! The first step is to get the MS- DOS files over to the QL format, byte by byte.
[The commands mentioned in this article include those from Tebby's Toolkit II. They are designated with a "*": the "*" is not part of the command.]

At CATS I Learned that the QUANTA library (from Tom Bent) had just such a transfer program in it -"IBM-DISK" by N. Taylor. After buying a copy of this utility, I hauled it into a CATS meeting and tried it out with my MS-DOS disk and a borrowed disk drive (I didn't own one then). "IBM-DISK" requires that the source disk be in the drive before it is executed (EXEC_W or $E W \star$ ). A menu then appears, sh̄owing selections 1) to read the directory of the disk, 2) to copy text files, 3) to copy binary files, 4)to reset to another disk, and 5) to quit. I tried the binary file copy - it did nothing: it didn't even crash the program. The text copy did work so I got some MS-DOS files onto my MDV's. Back home at my own QL I first programed some procedures to pick out some of the text from the file. It didn't work, after the first few lines of text, it produced garbage. Copying the file to the screen showed that the text was there, just not in the right place. With the use of a PC and the QL I manually checked the differences in QL version and the IBM version of the file, byte by byte (how? - see below). Taylor's program had indeed transferred the file as text - and
stripped out all the carriage returns (CR, char. \#13, \#OD hex) and MS-DOS's text end-of-file marker (char. \#26, \#1A hex). In contrast to some other formats, which end text Lines with a $C R$ and a line feed (LF, char \#10, \#0A hex), Q-DOS uses only an LF. Unfortunately, 13 and 26 have other meanings in my files that could not be ignored.

How does one see just what bytes are in a file? Copying the file to SCR will display the text, but the unprintable characters appear as inverse blanks. VIEW* shows even Less - it's best only for Superbasic program listings.) Later versions (3.X) of MS-DOS have a DEBUG utility. It allows one to "dump" a section of a file to the screen - it shows a section of the file in hexadecimal, and prints the readable text, as shown in figure 1. (DEBUG has other file manipulation features also.) Tebby's Toolkit has a command, GET*, that allows one to write a superbasic "debug-dump". Briefly, a file is opened as \#A, GET* \#A \ n, sets the output to byte no. "n", then GET* \#A, $x$ : PRINT $x, C H R \$(x)$ will print the byte value and the character that it represents. Procedures were written with such a statement in a loop to produce "DEBUGD" that would display (or print) sections of a file. The start of the "GAZET_DBF" is shown in Figure 2. (See me for a copy of "DEBUGD".)

When I heard that the "Supermedia Manager" (SM) from Digital Precision would do what I wanted, I finally broke down and bought a disk drive (an 80 track DD, 5-1/4") and SM. This program has 58 different procedures that one can use to do lots of things with files. It can be used to repair corrupted files, "dump" disk or mdv sectors to the screen or printer, move sectors around, edit files byte by byte, and copy files generated by other (alien) computers. I tried the last one first. $S M$ is menu driven, an item is picked from the main menu, and the sub-menu appears. For
"Alien disk file copier" one must first "Set Disk Drive and Alien Disk Type" on the sub-menu, with the SM disk in a drive. Once the drive is selected. a list of disk types appears. The first few are from BBC \& Acorn (UK machines); the next several are MS-DOS (IBM) formats, single-sided, double-sided, 40 and 80 track. Only one of these is commonly used - \#5, 40-track, DS-DD ( 360 Kb ). Early MS-DOS versions used SS \& maybe, SD, and some accessory 80 -track ( $9-s e c t o r$ ) drives have been added to some PC's, but they are rare. (The IBM-AT, HC, 1.2 Mb, 15-sector disk is not listed and can not be copied.) I made the \#5 selection, and put my 40-track MS-DOS disk into the $80-t r a c k$ drive, and requested "Alien file transfer". A numbered directory of files on the MS-DOS disk appeared. After I picked the number of the file to copy, the program requested the target file-name (ram1_test, for this trial). The copying started with the file also being written to the screen! The file I transferred was a short listing of FORTH code: it has only ASCII characters with no LF's or CR's. Since this seemed to work, I tried a larger forth file, 190,592 bytes. I got a QL file of the same size (plus one byte), but half of it turned out to be garbage. The other half was good, but roughly every two sectors were not recognizeable, and a closer look showed that half the sectors started with "〈TE〉" which is SM message for transmission error. Finally after consulting experts. I concluded that I needed a 40-track disk drive for the transfer to work! Cone expert said the disk interface is the problem, the other said no!) such a drive is needed in spite of the fact that Q-DOS will read cbut not write to) a 40-track disk in an 80-track drive. Weird system!? (Taylor's "IBM- DISK" also would not read a 40-trk in an 80-trk; he did display an error message in this situation.)

Next step - I borrowed a used 40-track drive (later, I bought it), and transfered a couple files to a

QL disk. It worked! Then I tried a large file, one file equalled a full disk, 362,496 bytes. SM cut it off, at 347,136 bytes, exactly 30 sectors short. It also took 41 minutes to do it! In contrast, Taylor's program transferred the whole file, to the end (less the CR's), in ten minutes.

In summary, it is possible to transfer files from MS-DOS disks to QL files on disks, mdv's, or ram-disks with SM or, for text files, with "IBM-DISK". but the following precautions must be taken:

1) The MS-DOS disk must be in a drive with the same number of tracks that it is formatted to: i. e.. 40 -track for a 360 Kb disk (at least if a CST interface or Trump card is used).
2) With $S M$ the transfer is unnecessarily slow because of the screen display. Digital Precision bugged this one!
3) Do not try to copy any files in the last 30 sectors of an MS-DOS disk with SM. Another bug, DP! Short or long files in those sectors are not copied. Use a PC to put files in such sectors in the early sectors of a fresh disk. IBM-DISK will copy from the last sectors, for text.
4) Neither program will handle the HC 15-sector IBM-AT disk.

Finally, why copy MS-DOS files to the $Q L$ ? Hopefully, we can manipulate data, or even use certain program code, on the QL. Data files, from dBase, for example, might be converted to a form QL programs could use. Text from word processors might be reformatted to import into quill to be edited, merged with other text, etc. Lastly, source code from high level languages, such as basic, Pascal. etc. should be convertable to a form that a QL interpreter or compiler can handle. I have already gotten Forth blocks transferred - I hope to get them loaded and running soon.

| 16CF: 0160 | 00 | 00 | 00 | 00 | 71 | 71 | 01 | 00-00 | 00 | OF | 00 | 1 A | 00 | FF | 00 |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 16CF:0170 | 00 | 00 | 00 | 27 | 54 | 68 | 69 | 73-20 | 69 | 73 | 20 | 4 C | $6 F$ | 74 | 75 |  |  |
| 16CF:0180 | 73 | 20 | 31 | 2 D | 32 | 2 D | 33 | 00-OF | 00 | 1 A | 00 | F F | 00 | 00 | 14 | 1-2 |  |
| 16CF:0190 | 00 | 27 | 44 | 75 | 6E | 64 | 61 | 6c-6B | 20 | 43 | 6 F | 60 | 60 | 2 E | 20 | - Dunda | Co |
| 16CF:01A0 | 43 | 6 F | 6C | 6 C | 2 E | 00 | 01 | 00-00 | 00 | 00 | FF | FF | 00 | 00 | 20 |  |  |
| 16CF:01B0 | 00 | B7 | 01 | FF | FF | 00 | 00 | FF-FF | 00 | 00 | FF | FF | 00 | 00 | FF |  |  |
| 16CF:01C0 | FF | 00 | 00 | F F | FF | 00 | 00 | FF-FF | 00 | 00 | F F | FF | 00 | 00 | FF |  |  |

Figure 1, Example of MS-DOS' DBUG Dump

Hex add $00010203040506070809 \quad 0 A \quad O B \quad O C \quad O D \quad O E \quad O F$
$0000 \quad 00147672 \quad 60 \quad 34 \quad 64 \quad 62-66 \quad 30 \quad 00 \quad 00 \quad 28$ E7 03 CE
$0010 \quad 002600$ DO 42 9C 00 00-00 00000043 DC 0000
$0020 \quad 00 \quad 000000452440 \quad 00-00000000$ OB 414647
$0030 \quad 48414 \mathrm{E} 495354414 \mathrm{E}-0441534941054 \mathrm{~L} 41$

0050
$41464748 \quad 414 \mathrm{E} 49 \quad 00-0041 \quad 20 \quad 00 \quad 00000000$
..vrm1dbf0..(...
.8..B.......C...
....E\$2.......AFG
HANISTAN.ASIA.KA
BUL.PUSHTU,DARI.
AFGHANI..A....

Figure 2, DEBUGD of first section of GAZET_DBF

## chis to hove Farith-eaming Merting

CATS saftware enthusiast DUAME H. PARKER will lead a special presentation on "Using the FORTH" language at the nest CATS meeting Saturday, February 13, at 2 P.M.

FORTH is a somewhat esotic software language which has been implemented on all sinclair products from the $2 X-81$ to the QL.
Duane will give us a general introduction to computer Languages by comparing BASIC (which is interpreted) to pascal (which is compiled). He will then give the group some insights into FORTH (a "threaded interpreted" language).

Featured in this multi-media event will be $35-\mathrm{m} . \mathrm{m}$. slides created by Duane, Large-screen video enhancement of his live keyboard demonstrations and VCR excerpts from a seminar on FORTH given at last May's Computerfest in Indianapolis.

You will not want to miss this unique presentation.

Plan now to be there!

## 

When the previous mass buys of the OL machines took place, members were promised they could legally make coples of the latest QL basel ine sof tware.

Supposedly these copies could then be used in lieu of the software which come cor sometimes didn't come) with the bargainbasement GLs.
However, this promise has been largely unfulfilled.

SUGGESTION: Whys can't a hardware session be designated when people can come and copy the four microdrives of sof tuare? Blank microdrives could be available for purchase, and one or two QLs set up to do the copying.

Help from other members could be easily available then to help newcomers over the rocky shoals of QDOS.
What do you think. Editor?
Fank Dickson
Great idea, Harks. Lets shout for the marith efter the Camputerfest, April, to do this. Thase that are gaing ta need micradrimes should line up your saurces now as they are in shart supply.
the PLOTTER: Tips and programs for
the plotter user
by Peter van Dijk

EXPLANATION OF PROGRAM PLOT3.

This program draws turtle pictures to a monitor screen and to the EPSON HI-80 plotter.

The turtle procedures are based on the TURTLE_BAS program in the QUANTA Library ${ }^{-}$(disk 8). ALL the picture drawing routines are examples of SUPERBASIC recursive procedures. The program has a start menu and any keypress after a picture is drawn, will bring back this menu. The scale used for the screen drawings is chosen to match the plot size without need for rescaling.

Line 290 opens a channel to the plotter. If this line is replaced by line 310 the plotter commands are directed to a screen window for program testing. A plotter is not required after this change is made. To speed up screen drawing all plotter commands can be bypassed by deleting lines 180, 240, 420, 600, 780 and 900.

The program has 3 procedures for translating the SUPERBASIC turtle commands into $x$ y coordinates, required for the plotter. Procedures P TURN and $P$ TURNTO update the absolūte drawing añgle and reduce angles of more than 360 degrees to (360-alfa) degrees. The angle is used in procedure $P$ MOVE to calculate the next relative $x$ and $y$ coordinates.
100 REMark TURTLE-PICTURES WITH
EPSON HI-80
110 REMark PROCEDURES BASED ON "TURTLE_BAS", QUANTA LIBRARY (DISK
8)

120 WINDOW 512,236,0,0:PAPER 2
130 REPeat PROG
140 CLS:AT $10,20:$ PRINT '1)
NESTED_TRI'
150 PRĪNT TO 20, '2) SNOWFLAKE':PRINT
TO 20, '3) SIERPINSKI'
160 PRINT TO 20, '4) CEE':PRINT TO
20, ${ }^{\prime}$ O) STOP':
170 INPUT TO 40,INV:CLS
180 OPENER
190 SELECt ON INV
200 =1:TRIANGLES: =2:SNOWFLAKE 1600,4
$210=3:$ SIERPINSKI
30,5:=4:CEE:=0:STOP
220 = REMAINDER
230 END SELECt
240 CLOSER

## CLASSIFIED ADS

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ANY HARDWARE／SOFTHARE COMPATIBLE WITH TS1000／1500．WOULD PREFER ALL ITEMS WITH IMSTRUCTIONS OR DIAGRAMS．I AM ALSO LOOKING FOR TIMEX＇SINCLAIR AND RELATED MPGA－ zines 《like CTM）and EOOKS．If YOU HANE ANY ITEMS FOR SALE OR DISFOSAL，PLEASE CONTACT ME．

Ted Dsheroff
P．0．Box 392
College Park；MD 20740－0392
MANTEN： 512 Expmision RAM for（an Charles Snith enoel Chortan ct． Germantawn．M1 20日74 301 g72－5e05

> TITSTIT
by Courtney Du Bois
Tinelinez，15ubs of the 5F Boy Rrea，Sept． 1987
Concluded from our January， 1988 issue



2080 2990
 3010 IET T＝1 3020 LET $1=1$
3030 LET K K KT

4010 IF $K=\mathbb{K} i, l\}$ THEN EOTD 404
4 QED LET $J=い-1$
4030 GUTO $4 \mathrm{~B}^{2} 10$
4035 FEM HF：IE FENE GROESECT
4040 IF I THEN GOTO 4070
4045 REM RESESRE \＆ET
4050 LET KII＝K
406 E GTO EWh
4070 LET K（I）＝K（U）
4 B0 LET $I=I+I$
SWQD FEM EDXFPFE MEPE FIGFT GND
WFTEM AET GOE EGEMT EEGE 5024
5 BDOD LET I＝I＋I

$504 \sqrt{6}$ IF J＜＝I THEN GOTO SDED

5050 LET K \｛．1i $=$ K（I）
5060 LET $\cup=\downarrow-1$
5070 BUTD $402 \mathrm{~B}^{2}$
EW75 REM RESZREE YEM
50 BE LET $K(1)=k$
5 हU LET I $=1$
EQRO FEM ETMEK，AREEF ELEBET
Einio LET $T=T+1$
EDED IF T－LCUT THEN EOTO 5070
GQ2S FEM BROEP－EFE SUESET
EQ3Q LET LTT $=1$
EQ4 LET UTTH＝T－1
6050 LET
EबE．GOTO EIM

EQ70 LET TT $=\overline{1}+1$
EDER LET UTT： 1
EQGQ LET U＝IーI
ElW EETURN

THE RISSING 3 LINES
610 LINE $\mathrm{Xg}, \mathrm{Y}$
620 MR $X, Y$
630 LINE R TO 200，100 TO 0，－200 T
$0-200,100$

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